UNITED STATES PATENT OFFICE.

JOSEPH G. FULLER, OF BROOKLYN, NEW YORK.

IMPROVED FABRIC FOR ROOFING.

Specification forming part of Letters Patent No. **39,139**, dated July 7, 1863.

To all whom it may concern:

Be it known that I, JOSEPH G. FULLER, of Brooklyn, in the county of Kings and State of New York, have invented, made, and applied to use a certain Improvement in Roofing Material; and I do hereby declare the following to be a full, clear, and exact description of my said invention and of the features which distinguish the same from the roofing materials heretofore made.

Sheets of thick paper dipped in coal-tar have heretofore been employed as a roofing material; but it is found in practice that such paper, after being saturated with coal-tar, becomes spongy and loses much of its strength, and hence is quickly destroyed when exposed to the elements. Blood has been used in coal-tar as a drier; but the same is found to render sheets of paper dipped therein brittle, and liable to being torn and broken when used for roofing.

The nature of my said invention consists in the preparation of sheets of paper for roofing material in the following manner:

I take linseed-oil, in the proportion of one gallon of such oil to about three pounds of flour-sulphur, and mix them thoroughly together, after which I subject the mass to a temperatute of about 280° Fahrenheit, continuing the stirring, which effects a thorough incorporation of the sulphur with the oil. I mix the sulphur-oil, prepared as above, with coal-tar in about the proportion of one gallon of said sulphur-oil to one barrel of coal-tar, and stir the same thoroughly, adding a small amount of blood—say about three gallons—as a drier. I introduce into this mixture, while hot, the sheets of paper to be rendered water-proof for roofing, and then pass them through between any ordinary rollers, that compress the sheets and remove any surplus of the said waterproofing material. These sheets will quickly become sufficiently dry or hardened for use on roofs in any of the well-known modes of their application, and said material renders the said sheets of paper water-proof, firm, and durable.

What I claim, and desire to secure by Letters Patent, is—

Preparing sheets of roofing-paper with the waterproofing compound set forth, in the manner specified.

In witness whereof I have hereunto set my signature this 10th day of June, 1863.

JOSEPH G. FULLER.

Witnesses:

LEMUEL W. SERRELL,
CHAS. H. SMITH.